Kipp & Zonen

METEON

IRRADIANCE METER

Hand-held display unit and data logger for use in the field

Suitable for most Kipp & Zonen radiometers

Displays real-time radiation values

User-friendly Windows™ software

Long battery life

METEON is an accurate hand-held display unit and data logger for the measurement of solar irradiance. Its accurate micro-Volt amplifier correctly matches the output of most Kipp & Zonen radiometers. The small size, long battery life and universal input make it an ideal tool for many test and field applications.

When METEON is connected to a radiometer and switched on it directly shows the real-time radiation in W/m² or μmol/m²s on the large 4 digit display. It can also display negative values, so can be used with the NR Lite net radiometer.

The integrated data logging function of METEON can store more than 3500 sets of the minimum, maximum and average radiation values over the logging interval; which can be set between 2 seconds and 18 hours. The recorded averages can be used to obtain the integrated radiation value. A selectable delay can be used to start logging at a predefined date and time. All logged data is stored with date and time stamp per interval.

METEON can be easily configured with a computer using the supplied software and USB interface cable. Just select the radiometer type from a list, enter its sensitivity, and the correct measuring range is automatically selected. The logged data can be downloaded, stored and presented graphically; scaled automatically or as defined by the user.

Other available software functions are:
- Setting of logging interval
- Setting of logging start delay
- View METEON status
- Erase METEON memory and start logging
- Export data in text format
- Setting of radiometer sensitivity

METEON is supplied in a convenient carrying case together with batteries, software and manual on CD-ROM, the USB interface cable and space for a radiometer. METEON can be ordered pre-configured with a radiometer as a complete irradiance measurement kit.

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APPLICATIONS

- Field or test use in Meteorology, Agriculture, Industry and Education.

- Efficiency check of PV installations with a pyranometer

- PAR reading in greenhouses with PAR-Lite

- UV radiation check with CUV 4

- Net-radiation logger with the NR-Lite

- Radiation transmission test for greenhouse windows

- Incoming radiation readout for solar collectors

SPECIFICATIONS

A/D conversion	16 bits
Input range	± 6.25 mV to ± 200 mV
Basic accuracy	0.1%
Temperature sensitivity	< 0.5% over the full temperature range
Operating temperature range	-10°C to +40°C
Relative humidity	< 95%, non-condensing
Input circuit	> 2 MΩ / 680 nF
Input connectors	2 x 4mm banana plug
Display	LCD 4 digits with polarity
Display update	1 second
Computer interface	USB 1.1 / 2.0 compatible
Supply current	< 2 mA
Batteries	2 AA (penlight) alkaline
Battery life (alkaline)	> 50 days continuous use
Data logger memory	3518 samples
Data logger storage interval	2 to 65535 seconds
Logged information	Minimum, maximum and average over log interval
Software compatibility	Windows™ 2000, XP
Weight	175 g
Dimensions	70 x 25 x 146 mm

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SOLAR & ATMOSPHERIC SCIENCE

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